

A new species of *Ischyomius* from Venezuela (Coleoptera, Tenebrionoidea, Pythidae) with a revised key to world species

Darren A. Pollock

Department of Biology, Eastern New Mexico University, Portales

urn:lsid:zoobank.org:author:A9B3DFD3-6391-4E1D-8894-53B148A3322B

Corresponding author: *Darren A. Pollock* (darren.pollock@enmu.edu)

Academic editor: *Warren Steiner* | Received 19 December 2008 | Accepted 18 February 2009 | Published 11 March 2009

urn:lsid:zoobank.org:pub:93D507B3-AD8F-46D9-9E8C-F209C65A8D2A

Citation: Pollock DA (2009) A new species of *Ischyomius* from Venezuela (Coleoptera, Tenebrionoidea, Pythidae) with a revised key to world species. ZooKeys 6: 69-74. doi: 10.3897/zookeys.6.81

Abstract

A new species – *Ischyomius escalonai* – is described from Venezuela (type locality: Lara, Yacumbú National Park, El Blanquito). Males of *I. escalonai* have distinctive genitalia with very short accessory lobes, and both sexes have simple elytral apices, without the spine that is present in almost all other species of the genus. The type specimens of *I. escalonai* were collected in association with dry leaves of Bird of Paradise (*Strelitzia* sp.) plants. A revised key to species of *Ischyomius* is provided.

Keywords

beetles, new species, Neotropical, Pythidae, Venezuela

Introduction

As outlined by Pollock (1998, 2007), the genus *Ischyomius* has been, until recently, an enigma within the superfamily Tenebrionoidea. After historical placements in Tenebrionidae, Melandryidae, Tetratomidae and Trictenotomidae, the genus now has a solid placement within Pythidae. A preliminary study of the putative larva of *Ischyomius* further confirms its placement in Pythidae (Pollock, unpublished). Pollock (1998) tentatively placed the genus near the monotypic *Sphalma* Horn, based on shared possession of concealed antennal insertions, very large mandibular mola, and lateral pronotal carinae.

The description of species of *Ischyomius* has a “bimodal” distribution; after description of the first four species from 1878 to 1916 (Chevrolat 1878; Champion 1916), it was another 90 years until the next two species were described (Pollock 1998). Then, based on recently collected material, a seventh species – *I. hovorei* – was described by Pollock (2007). With the present description of *I. escalonai*, sp. n., the diversity of *Ischyomius* is now comparable to that of *Pytho* Latreille, the latter of which has 9 described species. It seems likely that additional new species will be discovered, thus making it the most diverse genus in the family. All other pythid genera comprise one or two species only.

***Ischyomius escalonai* Pollock, sp. n.**

urn:lsid:zoobank.org:act:7DFC5962-B47E-4848-9608-C387CE58049B

(Figs. 1-4)

Type series. Holotype male, labeled: “VENEZUELA, Lara, P.N. Yacambú, El Blanquito, 1400 m 26.VI.2005; Hermes Escalona, collector” / “coll. on bird of paradise (*Strelitzia*) dry leaves” / “HOLOTYPE *Ischyomius* ♂ *escalonai*, sp. n. D. A. Pollock 2007”. Allotype female, same labels as holotype (with “ALLOTYPE” instead of “HOLOTYPE” on third label). Two paratypes, one male, one female, with same labels as Holotype (with “PARATYPE” instead of “HOLOTYPE” on third label). Holotype, allotype and female paratype deposited in Museo del Instituto de Zoología Agrícola “Francisco Fernández Yepéz”, UCV, Maracay, Venezuela (Luis J. Joly, curator). Male paratype deposited in collection of author.

Derivation of specific epithet. I am very pleased to name this new species after friend and colleague Hermes Escalona, a fellow specialist on the “salpingid group” of tenebrionoid families, and who also collected all known specimens of this species.

Diagnosis. This new species of *Ischyomius* may be separated from the rest of the genus by the following combination of characters: posterior pronotal bead indistinct; lateral pronotal bead not attaining anterior bead; color uniformly light to medium brown; abdominal ventrites with short but obvious setation; elytral apices rounded, without spine (Fig. 3) aedeagus relatively short and stout, accessory lobes very short, inserted midlength on the tegmen (Fig. 4); known only from Venezuela.

Description. With generic characteristics of *Ischyomius* (see Pollock 1998: 246-250), plus the following: total length (TL) 9.9-11.5 mm; greatest elytral width (GEW) 2.8-3.2 mm; body (Fig. 1) elongate (TL / GEW = 3.5-3.8) color uniformly light to medium brown dorsally, without obvious color contrasts, ventrally, thorax and abdominal ventrites slightly darker than legs and elytral epipleuron; eyes moderately protuberant; antennae relatively long, antennomeres filiform, slightly widened from antennomere 5; male lacking pit on mentum; entire dorsal surface of body with shallow, sparse punctation, without any obvious microsculpture; pronotum wider than long (GPW / PL = 1.19-1.21); posterior pronotal bead indistinct; lateral pronotal carinae distinct, smooth, without tubercles, prolonged anteriorly

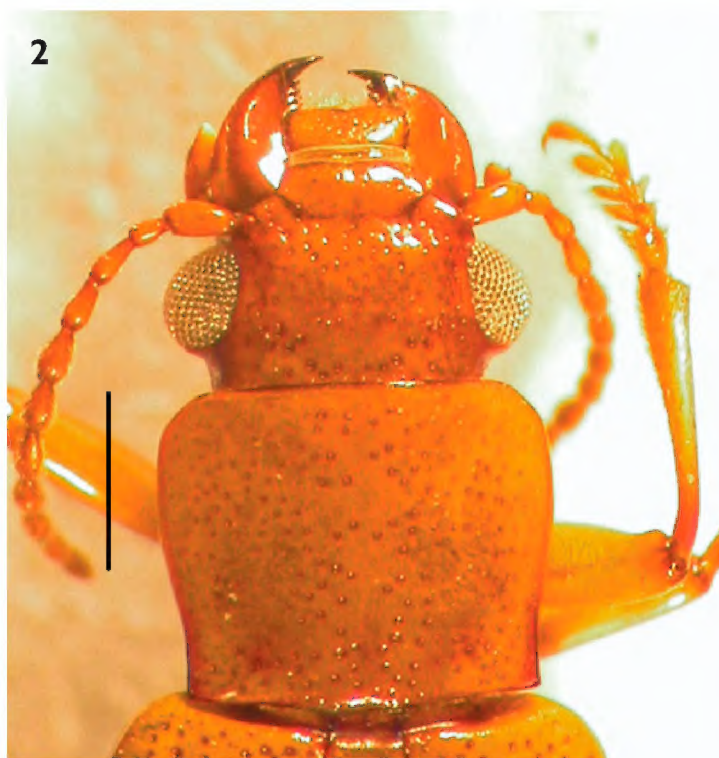


Fig. 1. Dorsal habitus of *Ischyomius escalonai* sp. n., male paratype. TL = 11 mm.

Fig. 2. *Ischyomius escalonai* sp. n., male, detail of forebody. Scale bar = 1 mm.

Fig. 3. *Ischyomius escalonai* sp. n., male, detail of elytral apices. Scale bar = 1 mm.

Fig. 4. *Ischyomius escalonai* sp. n., aedeagus, dorsal view. Scale bar = 0.5 mm.

to, and in contact with, anterior pronotal bead; lateral pronotal margins parallel-sided basally, then relatively abruptly widened, greatest width anterior of midlength (Fig. 2); anterolateral angles of pronotum rounded, not angulate; disc of pronotum moderately convex with indistinct posterolateral depressions; elytra convex, slightly flattened dorsally, without distinct setation; outer apical elytral spine absent (Fig. 3); thoracic sterna and abdominal ventrites with distinct, almost isodiametric microsculpture; abdominal ventrites relatively coarsely punctate, with short but evident setation; aedeagus (Fig. 4) stout, apicale slightly shorter than basale; apicale broad, tapered distally; accessory lobes narrow, very short, not extended to end of apicale, inserted about midlength of apicale.

Distribution. The four type specimens were collected from a single locality, in Yacambú National Park, Lara State, in easternmost Venezuela.

Natural history. All four specimens were collected by beating withered leaves of “Bird of Paradise” plants (*Strelitzia* sp.) (Hermes Escalona, pers. comm.). Very little is known about any other species of *Ischyomius*, although they seem to be associated with dead or dying vegetation of Musaceae or Palmae (Champion 1916; Pollock 1998). Although the genus *Strelitzia* is native to South Africa, and therefore was introduced to the Venezuelan type locality, the family Strelitziaceae is closely related to Musaceae (which are also introduced), in the “banana and ginger” group of plants (Kress and Hahn 1997). It seems probable that *I. escalonai* will be found in association with Musaceae, also.

Discussion. The description of *I. escalonai* brings the total known species in *Ischyomius* to eight. The first couplet of Pollock’s (1998) key divided the species into two groups: those that have a distinct, posterior pronotal bead and distinct vestiture on abdominal ventrites and those without posterior bead and lacking ventral abdominal vestiture. Each of the four type specimens of *I. escalonai* are intermediate between these two groups, *i.e.* without the pronotal bead, but with short, but distinct ventral abdominal vestiture. Therefore, the original key of Pollock (1998), revised by Pollock (2007) for inclusion of *I. hovorei*, must be amended, as follows. References to figures for species other than *I. escalonai* refer to figures in Pollock (1998).

- | | | |
|------|---|-----------------------------------|
| 1 | Pronotum with distinct bead along entire posterior margin (in most specimens)..... | 2 |
| 1' | Pronotum without posterior bead, or present laterally only..... | 4 |
| 2(1) | Antennomeres filiform; elytral apex with conspicuous, outer spine (Fig. 1A-D, F)..... | 3 |
| 2' | Antennomeres short, subserrate; elytral apex without conspicuous, outer spine (Fig. 1E) | <i>I. bicolor</i> Champion |
| 3(2) | Antennomeres 2-10 piceous to black, contrasting in color to antennomeres 1 and 11; lateral margins of pronotum with several long setae; body testa- | |

- ceous, with median, longitudinal dark vitta extended from frons to elytral apex (Fig. 1D).....***I. championi* Pollock**
- 3' Antennomeres 1-11 concolorous, rufous; lateral margins of pronotum without long setae; body testaceous to rufous with elytral infuscation, around scutellum and rectangular to diamond-shaped, transverse dark area slightly posterior of elytral midlength (Fig. 1F)***I. nevermanni* Pollock**
- 4(1') Anterolateral angles of pronotum produced, square to slightly acute (Fig. 1C)..... ***I. denticollis* Champion**
- 4' Anterolateral angles of pronotum not produced, more or less rounded **5**
- 5(4') Lateral pronotal bead attaining anterior pronotal margin, continuous with anterior bead (Fig. 4B)..... **6**
- 5' Lateral pronotal bead not attaining anterior pronotal margin (Fig. 4D) **7**
- 6(5) Apex of elytron with distinct outer spine (Fig. 1A); abdominal ventrites without obvious setation (setae, if present, hidden within punctation); accessory lobes of aedeagus long, greater than half length of apicale, extended to apex of apicale (Fig. 7D)***I. singularis* Chevrolat**
- 6' Apex of elytron smooth, without outer spine (Fig. 3); abdominal ventrites with short but obvious setation; accessory lobes of aedeagus short, distinctly less than half length of apicale, not extended to apex of apicale (Fig. 4)
.....***I. escalonai* Pollock, sp. n.**
- 7(5') Body color uniform, from testaceous to rufous ***I. chevrolati* Champion**
- 7' Body color orange-red except for elytral apices, femora and tibiae piceous to nearly black..... ***I. hovorei* Pollock**

Acknowledgments

I would like to thank the many curators and collection managers who have given me the privilege of examining their material over the years. Special appreciation is due Hermes Escalona, a fellow student of the “salpingid group”, who collected all known specimens of the new species described herein.

References

- Champion GC (1916) Notes on Melandryidae (3). Entomologist's Monthly Magazine (Ser. 3) 2: 75-83.
- Chevrolat MA (1878) Nouveau genre d'hétéromères. Mittheilungen des Münchener Entomologischen Vereins 2: 98.

- Kress WJ, Hahn WJ (1997) Zingiberanae. The bananas, gingers, and relatives. Version 01 January 1997. <http://tolweb.org/Zingiberanae/21339/1997.01.01> (accessed 19 December, 2008).
- Pollock DA (1998) Revision of the Neotropical genus *Ischyomius* with a discussion on its systematic position (Insecta: Coleoptera: Tenebrionoidea: Pythidae). *Annals of Carnegie Museum* 67(3): 245-264.
- Pollock DA (2007) A new species of *Ischyomius* Chevrolat (Coleoptera: Pythidae) from Costa Rica. *Coleopterists Bulletin* 61(2): 277-280.